

[illegible]

```

FFFFFFFFF 000000 RRRRRRRR CCCCCCCC LL 000000 SSSSSSSS EEEEEEEEE FFFFFFFF
FFFFFFFFF 000000 RRRRRRRR CCCCCCCC LL 000000 SSSSSSSS EEEEEEEEE FFFFFFFF
FF 00 00 RR RR CC 00 00 SS 00 00 EE FF
FF 00 00 RR RR CC 00 00 SS 00 00 EE FF
FF 00 00 RR RR CC 00 00 SS 00 00 EE FF
FF 00 00 RR RR CC 00 00 SS 00 00 EE FF
FFFFFFFF 00 00 RRRRRRRR CCCCCCCC LL 00 00 SSSSSS EEEEEEEE FFFFFFFF
FFFFFFFF 00 00 RRRRRRRR CCCCCCCC LL 00 00 SSSSSS EEEEEEEE FFFFFFFF
FF 00 00 RR RR CC 00 00 SS 00 00 EE FF
FF 00 00 RR RR CC 00 00 SS 00 00 EE FF
FF 00 00 RR RR CC 00 00 SS 00 00 EE FF
FF 00 00 RR RR CC 00 00 SS 00 00 EE FF
000000 000000 RR RR CCCCCCCC LLLLLLLLLL 000000 SSSSSSSS EEEEEEEEE FF
000000 000000 RR RR CCCCCCCC LLLLLLLLLL 000000 SSSSSSSS EEEEEEEEE FF
.....

LL 111111 SSSSSSSS
LL 111111 SSSSSSSS
LL 11 SS
LL 11 SS
LL 11 SS
LL 11 SS
LL 11 SSSSSS
LL 11 SSSSSS
LL 11 SS
LL 11 SS
LL 11 SS
LL 11 SS
LLLLLLLLLL 111111 SSSSSSSS
LLLLLLLLLL 111111 SSSSSSSS

```

```
1 0001 0 MODULE FOR$$CLOSE_FILE (%TITLE, 'CLOSE FILE'
2 0002 0 IDENT = '1-002' ! File: FORCLOSEF.B32 Edit: SBL1002
3 0003 0 ) =
4 0004 1 BEGIN
5 0005 1
6 0006 1 *****
7 0007 1 *
8 0008 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
9 0009 1 * DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.
10 0010 1 * ALL RIGHTS RESERVED.
11 0011 1 *
12 0012 1 * THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED
13 0013 1 * ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE
14 0014 1 * INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER
15 0015 1 * COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY
16 0016 1 * OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY
17 0017 1 * TRANSFERRED.
18 0018 1 *
19 0019 1 * THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE
20 0020 1 * AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
21 0021 1 * CORPORATION.
22 0022 1 *
23 0023 1 * DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
24 0024 1 * SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
25 0025 1 *
26 0026 1 *****
27 0027 1
28 0028 1
29 0029 1 ++
30 0030 1 FACILITY: FORTRAN Language Support
31 0031 1
32 0032 1 ABSTRACT:
33 0033 1
34 0034 1 This module issues an RMS close to a file on a LUN.
35 0035 1
36 0036 1 ENVIRONMENT: User access level; re-entrant, AST level or not.
37 0037 1
38 0038 1 AUTHOR: Steven B. Lionel, 30-Sep-1982
39 0039 1
40 0040 1 MODIFIED BY:
41 0041 1
42 0042 1 1-001 - Adapted from OT$$CLOSE_FILE, version 1-012. SBL 30-Sep-1982
43 0043 1 1-002 - Use FAB and NAM in CCB. SBL 20-Jan-1983
44 0044 1 --
45 0045 1
```



FOR\$\$CLOSE\_FILE CLOSE FILE  
1-002

H 10  
16-Sep-1984 00:15:47  
14-Sep-1984 12:31:39

VAX-11 Bliss-32 V4.0-742  
[FORRTL.SRC]FORCLOSEF.B32;1

Page 2  
(2)

```

: 47      0046 1  |
: 48      0047 1  | PROLOGUE FILE:
: 49      0048 1  |
: 50      0049 1  |
: 51      0050 1  | REQUIRE 'RTLIN:FORPROLOG';           ! FORTRAN definitions
: 52      0116 1  |
: 53      0117 1  |
: 54      0118 1  | TABLE OF CONTENTS:
: 55      0119 1  |
: 56      0120 1  |
: 57      0121 1  | FORWARD ROUTINE
: 58      0122 1  |   FOR$$CLOSE_FILE : CALL_CCB;           ! Internal file close
: 59      0123 1  |
: 60      0124 1  |
: 61      0125 1  | EQUATED SYMBOLS:
: 62      0126 1  |
: 63      0127 1  |     NONE
: 64      0128 1  |
: 65      0129 1  | OWN STORAGE:
: 66      0130 1  |
: 67      0131 1  |     NONE
: 68      0132 1  |
: 69      0133 1  | EXTERNAL REFERENCES:
: 70      0134 1  |
: 71      0135 1  |     NONE
: 72      0136 1  |
: 73      0137 1  |

```

```
75 0138 1 GLOBAL ROUTINE FOR$CLOSE_FILE ! Internal file closer
76 0139 1 : CALL_CCB =
77 0140 1
78 0141 1 !++
79 0142 1 FUNCTIONAL DESCRIPTION:
80 0143 1
81 0144 1 Do an RMS CLOSE or DISCONNECT of a LUN. This includes handling
82 0145 1 any of the disposition flags in the LUB, whether set by OPEN or CLOSE.
83 0146 1
84 0147 1 FORMAL PARAMETERS:
85 0148 1
86 0149 1 NONE
87 0150 1
88 0151 1 IMPLICIT INPUTS:
89 0152 1
90 0153 1 Various fields from the LUB, pointed to by CCB.
91 0154 1
92 0155 1 IMPLICIT OUTPUTS
93 0156 1
94 0157 1 Various fields in the LUB and RAB.
95 0158 1
96 0159 1 ROUTINE VALUE:
97 0160 1
98 0161 1 The same as RMS CLOSE. The caller generally only tests the
99 0162 1 low-order bit of the completion code: if 1 the close succeeded,
100 0163 1 if 0 it failed.
101 0164 1
102 0165 1 SIDE EFFECTS:
103 0166 1
104 0167 1 CLOSEs the LUN, and marks it for deallocation.
105 0168 1
106 0169 1 !--
107 0170 1
108 0171 2 BEGIN
109 0172 2
110 0173 2 EXTERNAL REGISTER
111 0174 2 CCB : REF $FOR$CCB_DECL;
112 0175 2
113 0176 2 LOCAL
114 0177 2 CLOSE_RESULT; ! RMS result of $CLOSE
115 0178 2
116 0179 2 BIND
117 0180 2 FAB = CCB: REF $FOR$FAB_CCB_STRUCT,
118 0181 2 NAM = CCB: REF $FOR$NAM_CCB_STRUCT;
119 0182 2
120 0183 2 !+
121 0184 2 If V_DELETE is on in the LUB, set the DLT bit in the FAB.
122 0185 2 !-
123 0186 2
124 0187 2 IF .CCB [LUB$V_DELETE] THEN FAB [FAB$V_DLT] = 1;
125 0188 2
126 0189 2 !+
127 0190 2 If V_PRINT is on in the LUB, set the SPL bit in the FAB.
128 0191 2 !-
129 0192 2
130 0193 2 IF .CCB [LUB$V_PRINT] THEN FAB [FAB$V_SPL] = 1;
131 0194 2
```

```
132 0195 2  !+
133 0196 2  !- If V_SUBMIT is on in the LUB, set the SCF bit in the FAB.
134 0197 2  !-
135 0198 2  IF .CCB [LUB$V_SUBMIT] THEN FAB [FAB$V_SCF] = 1;
136 0199 2  !+
137 0200 2  !- If the file was not successfully OPENed, zero the XAB chain pointer.
138 0201 2  !-
139 0202 2  IF NOT .CCB [LUB$V_OPENED]
140 0203 2  THEN
141 0204 2  FAB [FAB$L_XAB] = 0;
142 0205 2  !+
143 0206 2  !- Now do the RMS close if IF1 is not zero.
144 0207 2  !-
145 0208 2  IF .FAB [FAB$W_IF1] NEQ 0
146 0209 2  THEN
147 0210 2  BEGIN
148 0211 2  !+
149 0212 2  !- Do a $CLOSE and put the error codes into the RAB so that
150 0213 2  !- our caller has a better idea of what the error was.
151 0214 2  !-
152 0215 2  CLOSE_RESULT = $CLOSE (FAB = FAB [0,0,0,0]);
153 0216 2  IF NOT .CLOSE_RESULT
154 0217 2  THEN
155 0218 2  BEGIN
156 0219 2  CCB [RAB$L_STS] = .CLOSE_RESULT;
157 0220 2  CCB [RAB$L_STV] = .FAB [FAB$L_STV];
158 0221 2  END;
159 0222 2  END
160 0223 2  ELSE
161 0224 2  CLOSE_RESULT = 1;
162 0225 2  !+
163 0226 2  !- Indicate that the LUN has been closed, so further I/O to it will
164 0227 2  !- fail.
165 0228 2  !-
166 0229 2  CCB [LUB$V_OPENED] = 0;
167 0230 2  !+
168 0231 2  !- Flag FOR$CB_POP that it is to deallocate the virtual storage
169 0232 2  !- occupied by this LUN. This bit also prevents OPEN from opening
170 0233 2  !- this LUN. OPEN will only see it if FOR$CB_POP does not deallocate
171 0234 2  !- the LUB, which will happen only if there is recursive I/O active on
172 0235 2  !- the LUN. When all of the recursive I/O has failed then the LUN
173 0236 2  !- can be opened again.
174 0237 2  !-
175 0238 2  CCB [LUB$V_DEALLOC] = 1;
176 0239 2  !+
177 0240 2  !-
178 0241 2  !+
179 0242 2  !-
180 0243 2  !+
181 0244 2  !-
182 0245 2  !+
183 0246 2  !-
184 0247 2  !+
185 0248 2  !-
186 0249 2  !+
187 0250 2  !-
188 0251 2  !+
```



```
: 189      0252  2      ! Return the RMS status resulting from the CLOSE.  
: 190      0253  2      !-  
: 191      0254  2  
: 192      0255  2      RETURN (.CLOSE_RESULT);  
: 193      0256  1      END;
```

```
05      FC  AB      06  E1 00002  
      49  AB      80  8F 88 00007  
      FC  AB 95 0000C 1$:  
      04  18 0000F  
05      49  AB      20  88 00011  
      FF  AB      05  E1 00015 2$:  
      49  AB      40  8F 88 0001A  
      03      FC  AB E8 0001F 3$:  
      68  AB D4 00023  
      46  AB B5 00026 4$:  
      18  13 00029  
      44  AB 9F 0002B  
00000000G 00 01 FB 0002E  
      08  AB      50  E8 00035  
      0C  AB      50  D0 00038  
      50  AB D0 0003C  
      03  11 00041  
      01  D0 00043 5$:  
      FC  AB      01  8A 00046 6$:  
      FF  AB      10  88 0004A  
      04 0004E
```

```
.TITLE FOR$$CLOSE_FILE CLOSE FILE  
.IDENT \1-002\  
.EXTRN SYSS$CLOSE  
.PSECT _FOR$CODE, NOWRT, SHR, PIC, 2  
.ENTRY FOR$$CLOSE_FILE, Save nothing  
BBC #6, -4(CCB), 1$  
BISB2 #128, 73(CCB)  
TSTB -4(CCB)  
BGEQ 2$  
BISB2 #32, 73(CCB)  
BBC #5, -1(CCB), 3$  
BISB2 #64, 73(CCB)  
BLBS -4(CCB), 4$  
CLRL 104(CCB)  
TSTW 70(CCB)  
BEQL 5$  
PUSHAB 68(CCB)  
CALLS #1, SYSS$CLOSE  
BLBS CLOSE_RESULT, 6$  
MOVL CLOSE_RESULT, 8(CCB)  
MOVL 80(CCB), 12(CCB)  
BRB 6$  
MOVL #1, CLOSE_RESULT  
BICB2 #1, -4(CCB)  
BISB2 #16, -1(CCB)  
RET
```

```
: 0138  
: 0187  
: 0193  
: 0199  
: 0205  
: 0207  
: 0213  
: 0222  
: 0223  
: 0226  
: 0227  
: 0213  
: 0231  
: 0238  
: 0249  
: 0256
```

: Routine Size: 79 bytes, Routine Base: \_FOR\$CODE + 0000

```
: 194      0257  1  
: 195      0258  1 END  
: 196      0259  1  
: 197      0260  0 ELUDOM
```

! END of FOR\$\$CLOSE\_FILE module

# PSECT SUMMARY

Name	Bytes	Attributes
_FOR\$CODE	79	NOVEC, NOWRT, RD, EXE, SHR, LCL, REL, CON, PIC, ALIGN(2)

# Library Statistics

File	----- Total	Symbols Loaded	----- Percent	Pages Mapped	Processing Time
_\$255\$DUA28:[SYSLIB]STARLET.L32;1	9776	12	0	581	00:01.0
_\$255\$DUA28:[FORRTL.OBJ]FORLIB.L32;1	711	180	25	52	00:00.6
_\$255\$DUA28:[FORRTL.OBJ]RTLILIB.L32;1	36	0	0	8	00:00.1

## COMMAND QUALIFIERS

```

:
:      BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/NOTRACE/LIS=LIS$:FORCLOSEF/OBJ=OBJ$:FORCLOSEF MSRC$:FORCLOSEF/UPDATE=(ENH$:FORCLOSEF
:      )
:
: Size:          79 code + 0 data bytes
: Run Time:      00:05.3
: Elapsed Time:  00:23.9
: Lines/CPU Min: 2921
: Lexemes/CPU-Min: 10752
: Memory Used:  88 pages
: Compilation Complete

```



0179 AH-BT13A-SE  
VAX/VMS V4.0

DIGITAL EQUIPMENT CORPORATION  
CONFIDENTIAL AND PROPRIETARY

COMR50WD  
LIS

FORDATEDS  
LIS

FORDECOMO  
LIS

FORB  
LIS

COMSETST  
LIS

FORASSOC  
LIS

FORCLOSEF  
LIS

FORDATE  
LIS

FORCLOSE  
LIS

FORDECOMP  
LIS

FORDELETE  
LIS

COMRAD50  
LIS

COMUSEREX  
LIS

FORBITOPS  
LIS

FORDEFINE  
LIS

FORBACKSP  
LIS

FORDISPA  
LIS

FORCUTR  
LIS